METALWORKS C-PLANK

Inspiring Great Spaces™

Armstrong®
CEILING SYSTEMS

METALWORKS C-PLANK INSTALLATION MANUAL

1. GENERAL

1.1 Product Description

C-plank system forms distinct V-shaped grooves after installed and become classical.

1.2 Materials and Finishes

MetalWorks C-plank system is made of hot-dipped galvanized steel or aluminium structure. It has good corrosion resistance. MetalWorks C-plank system is available in unperforated, standard perforated, microperforated or extra microperforated, and the surface is finished with pre-coated, the standard color is global white and white (RAL9010), available in other RAL colors to choose from.

1.3 Product Size

Standard size (WxHxT)
Aluminum: 85x15x0.5mm; 100x15x0.5mm; 150x15x0.6mm; 200x15x0.6mm; 300x30x0.7mm
Steel: 300x30x0.5mm

1.4 Suspension System

MetalWorks C-plank system use Armstrong C85, C100, C150, C200, C300 fishbone grids.

1.5 Storage and Handling

Metal ceiling shall be stored in a dry interior location and shall remain in cartons prior to installation to avoid damage. The cartons shall be stored in accordance with the instruction son the carton. Proper care should be taken when handling to avoid damage or soiling.

NOTE: The horizontal cartons shall not be laying exceed three floors,to avoid damaging the lower metal panel. Cartons shall be packed with wooden stand and carton loading should be uniform. According to the carton indicating direction, cartons shall not be stacked more than 1.5 m.

1.6 Jobsite Conditions

Building areas to receive metal ceiling shall be free of construction dust and debris. Products can be installed in conditions between 32°F (0°C) and 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. Cannot be used in exterior applications, where standing water is present or where moisture will come in direct contact with the ceiling.

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1.7 Fire Performance

Metal ceiling, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

2. INSTALLATION

2.1 General

After opening the product carton, and before installation, be sure to locate, remove and set aside the hardware kit before proceeding.

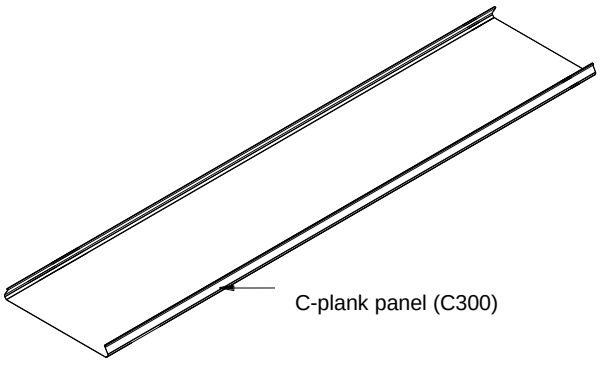
Metal ceiling must not be used to support any other material, and are also not approved for exterior application.

When installing lightings, diffusers, smoke and spray devices required leaving holes in the metal ceilings. Perforated work must be carried out on the ground, lightings, diffusers and other equipment should be installed simultaneously with the metal ceiling.

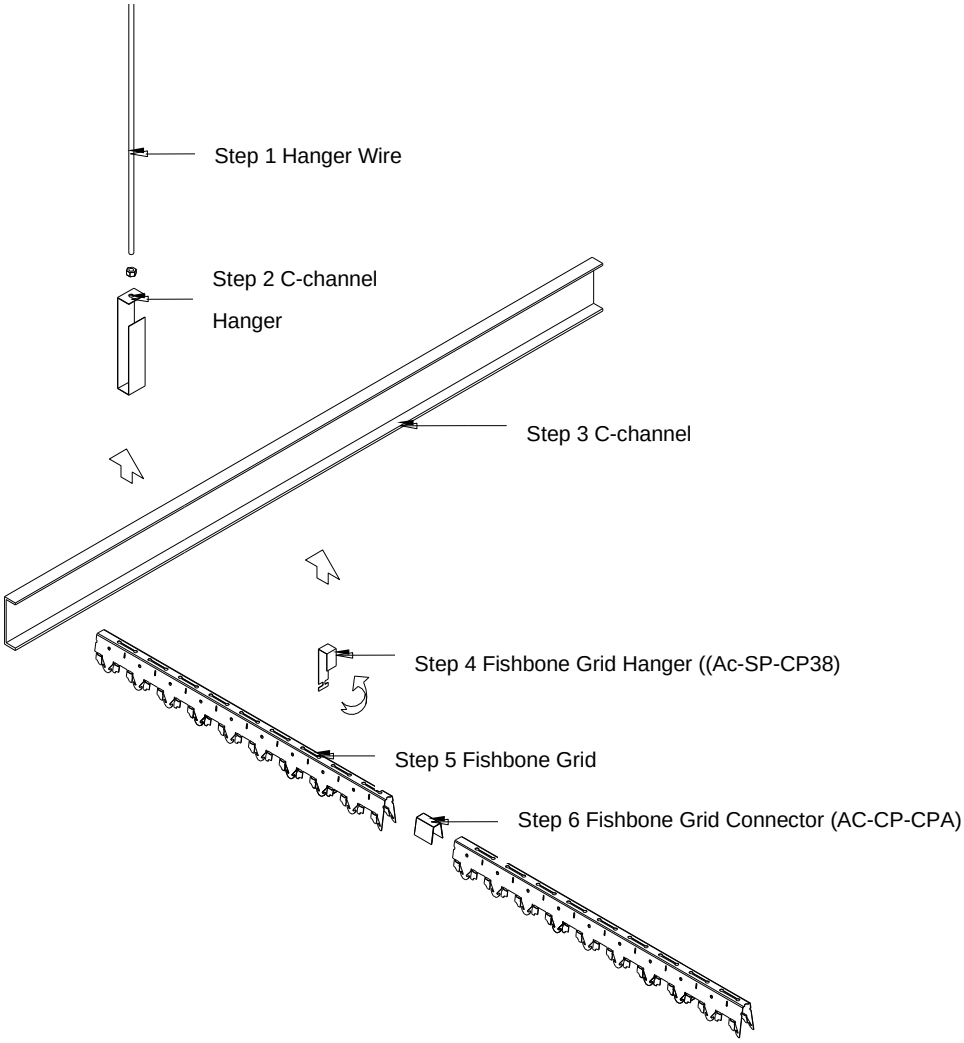
2.2 Installation Procedures

2.2.1 MetalWorks Panel and Installation Accessories Drawings

MetalWorks C-plank System: C-plank panel (300mm), C-channel, C-channel Hanger, C-channel Connector, Fishbone Grid, Fishbone Grid Hanger, Fishbone Grid Connector.



Installation Accessories



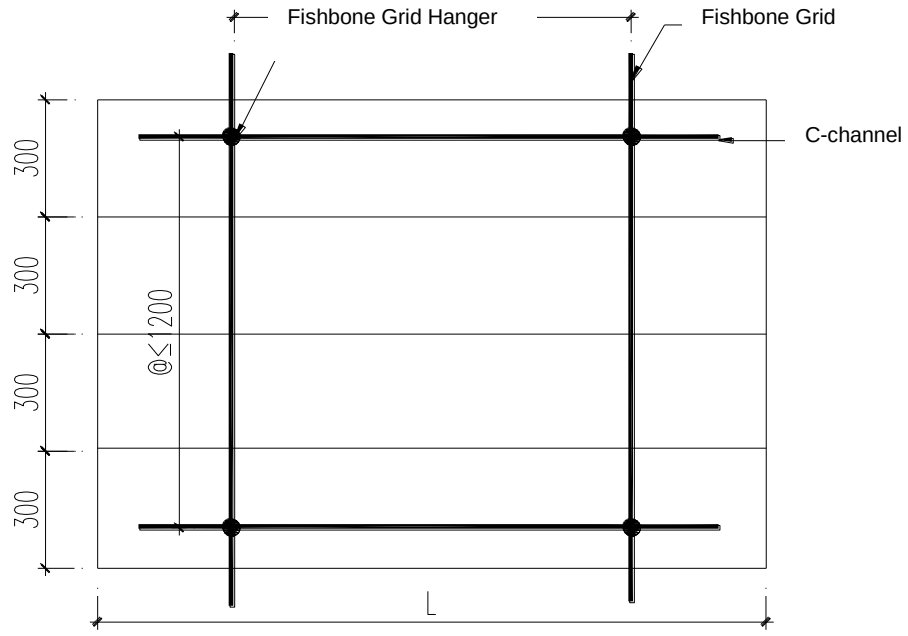
2.2.2 Floor Plan

A. According to the ceiling floor plans, draw the line for location of the grid

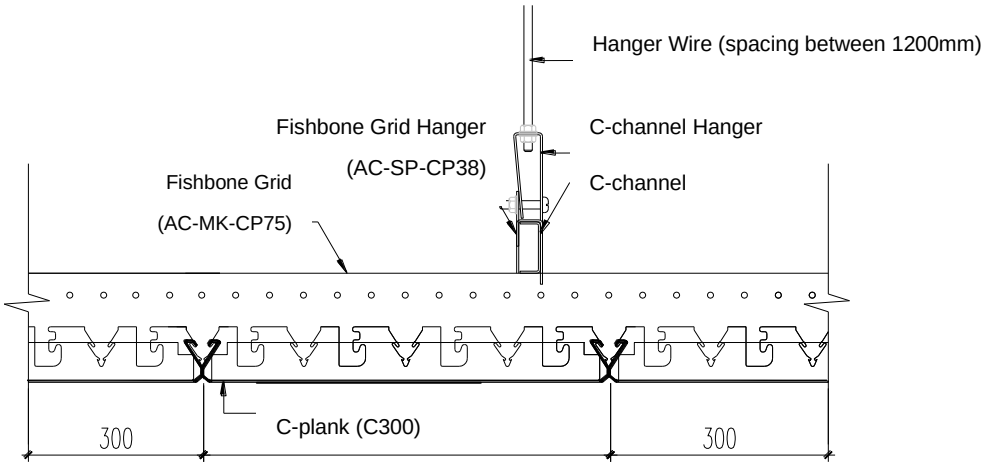
B. Determine the hanging point location

C. Install the hanger wire, hanger wire spacing between ≤ 1200mm

D. Installing, leveling, straightening the grids: C-channel spacing between ≤ 1200mm, Fishbone grid spacing between ≤ 1200mm. Using Fishbone grid hanger to fix Fishbone grid on C-channel. The location of Fishbone grid hanger is the intersection of C-channel (upper) and Fishbone grid (lower). C-channel and Fishbone grid are required straightening and leveling. Please follow the installation drawings and installation.



2.2.3 Profile



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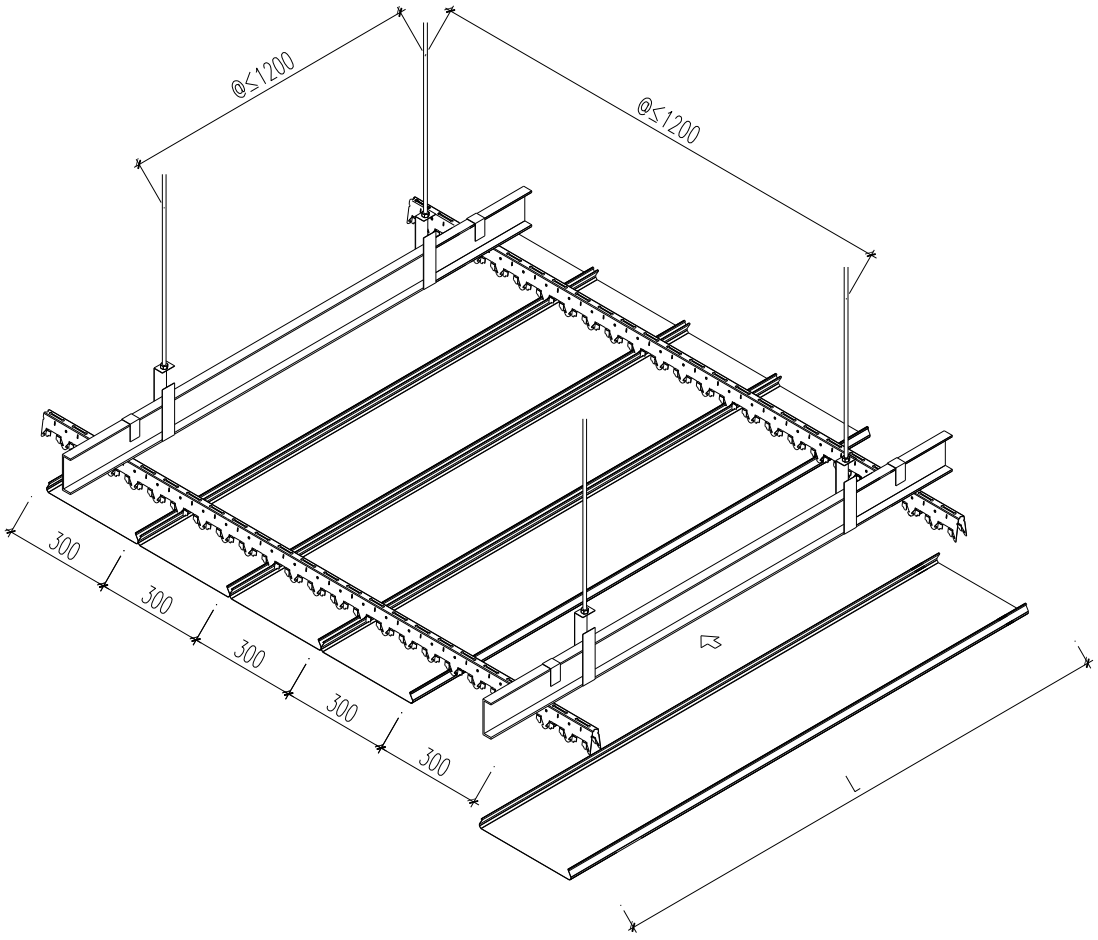
2.2.4 Isometric Drawings



2.2.3 Clean and Adjust

The installers need to wear gloves to avoid damage and pollute the ceiling panels; Before installing, cleaning surfaces of the metal ceilings. Use a clean, soft white cloth and mild detergent and water to wipe off any dirt or fingerprints. The dust in the back side of metal ceiling is normal